

# FIG.1

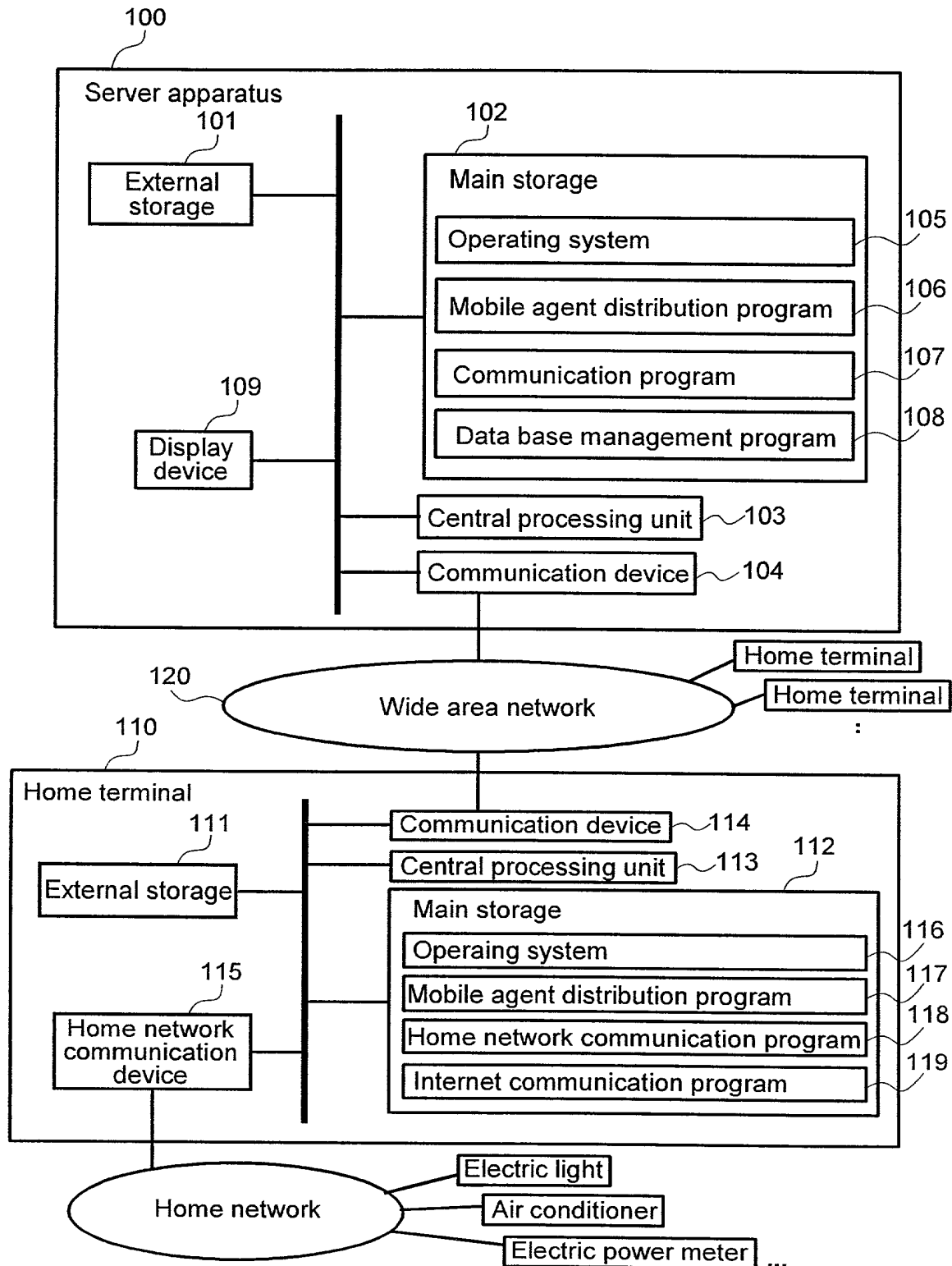
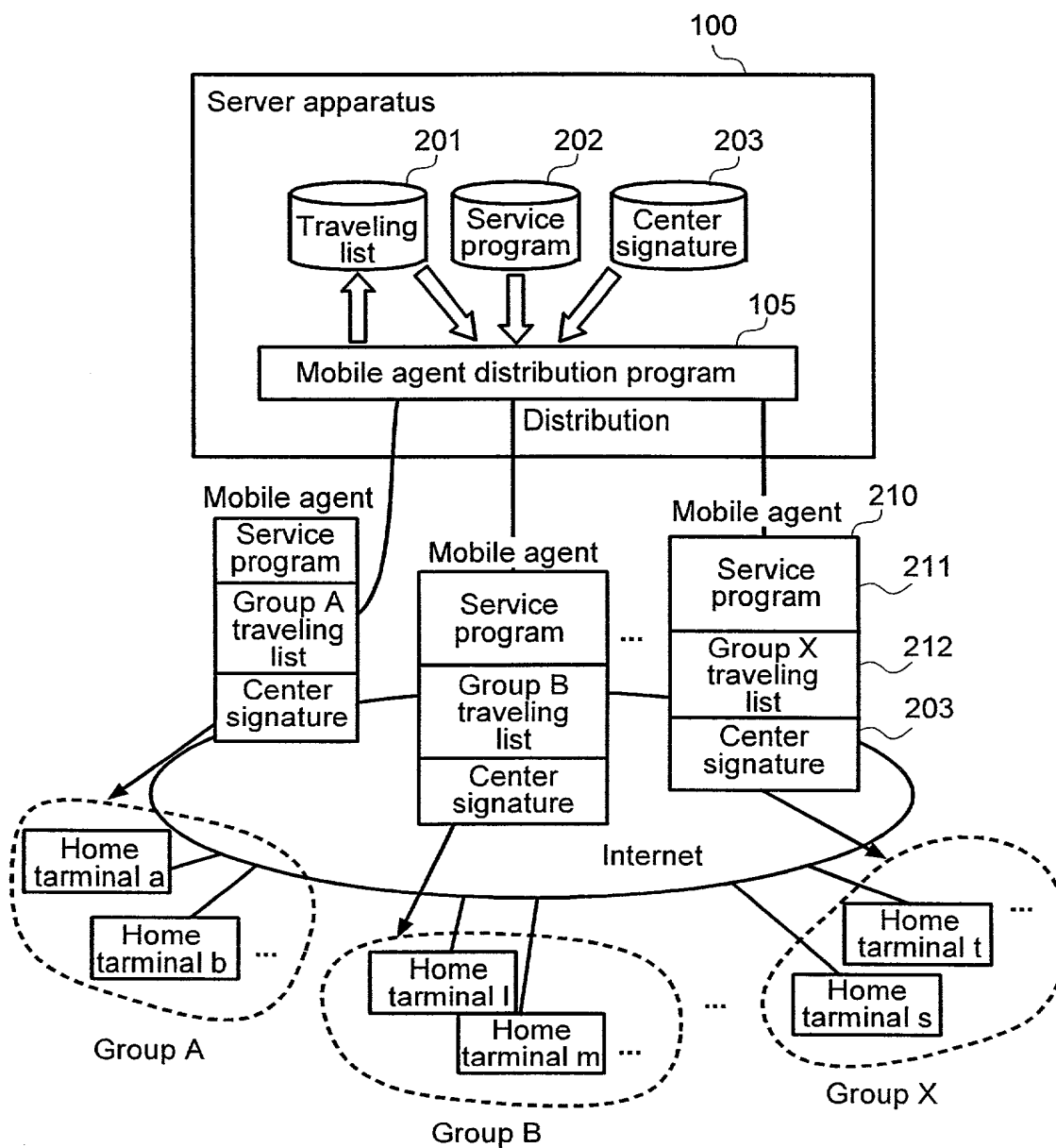
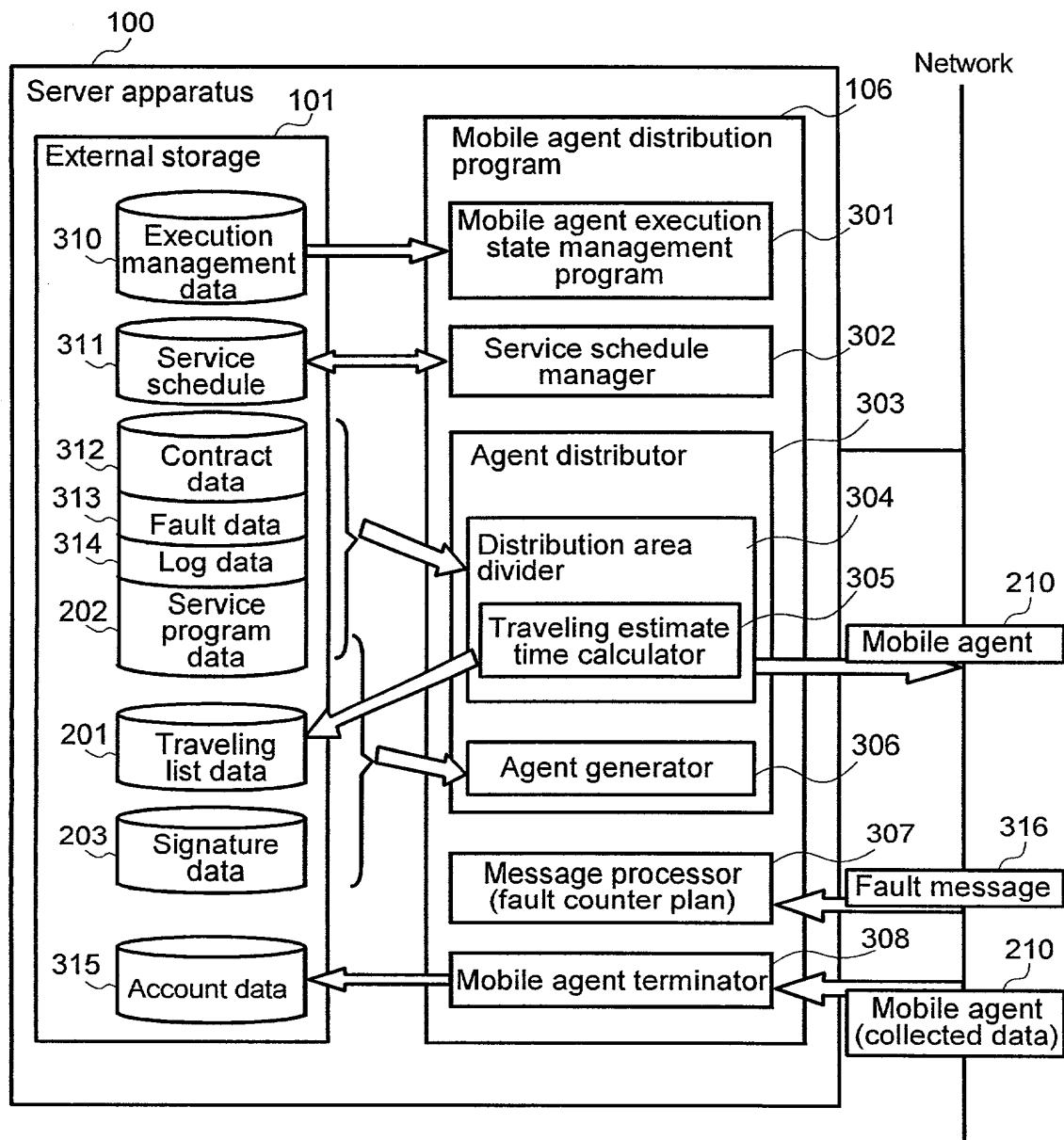


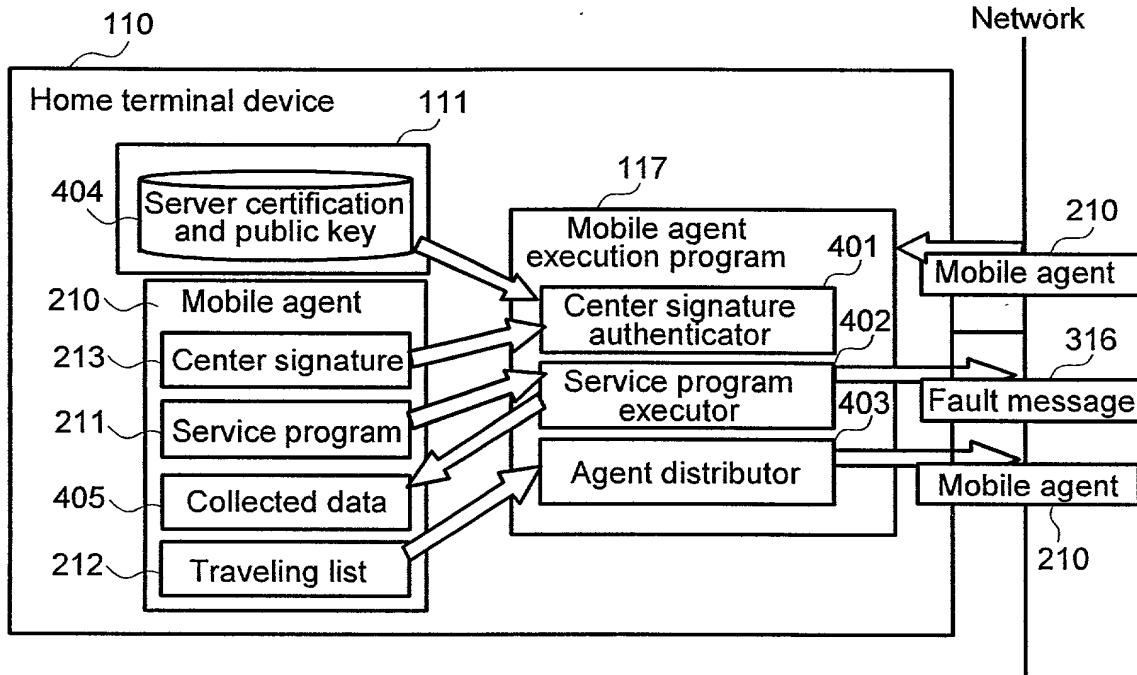
FIG.2



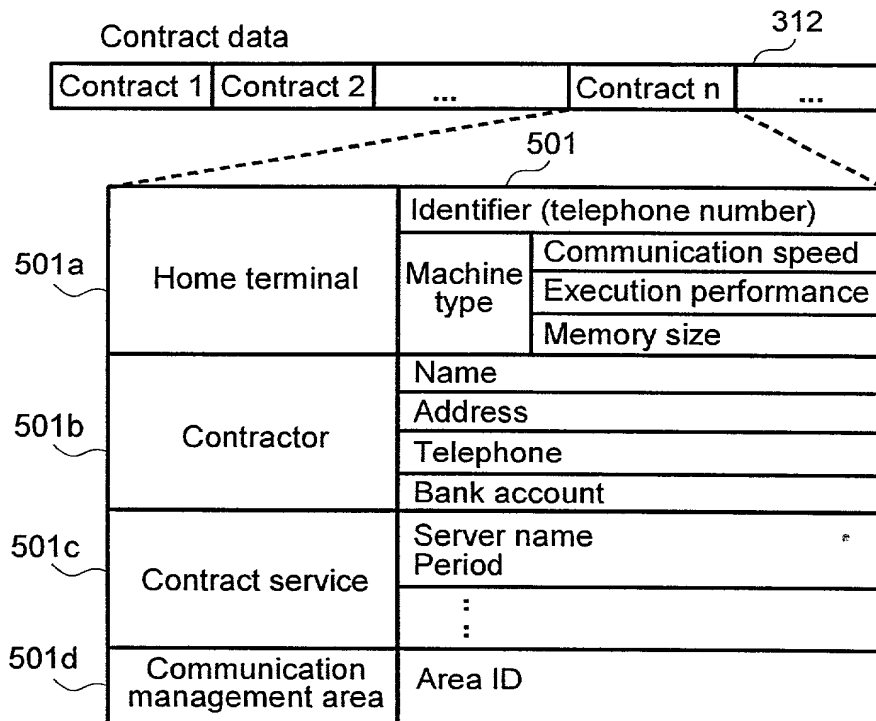
# FIG.3



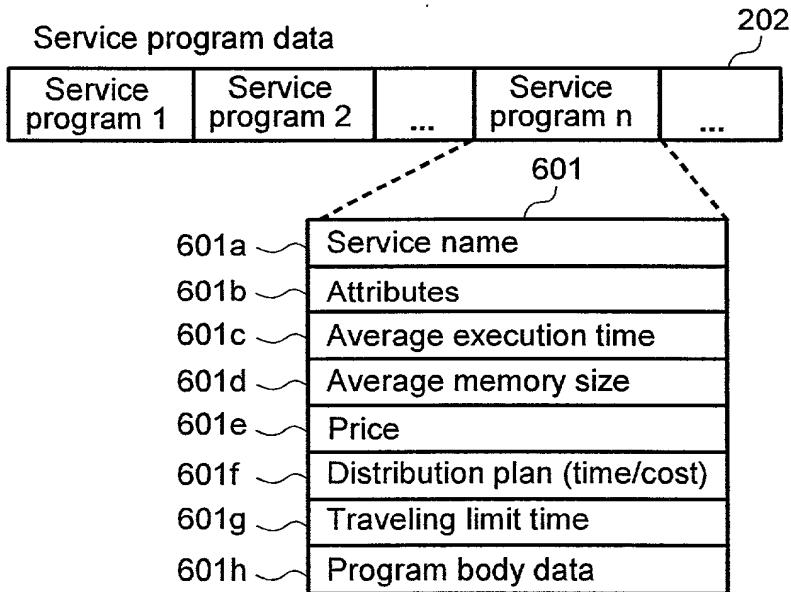
# FIG.4



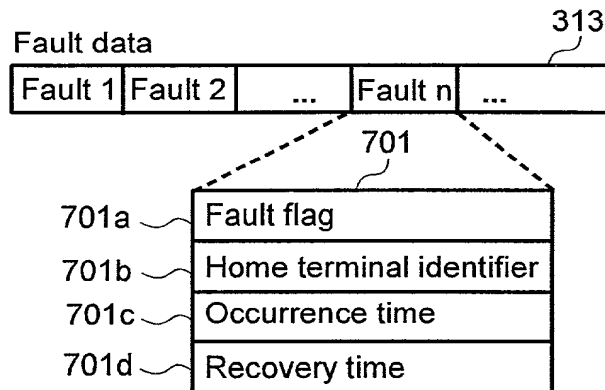
# FIG.5



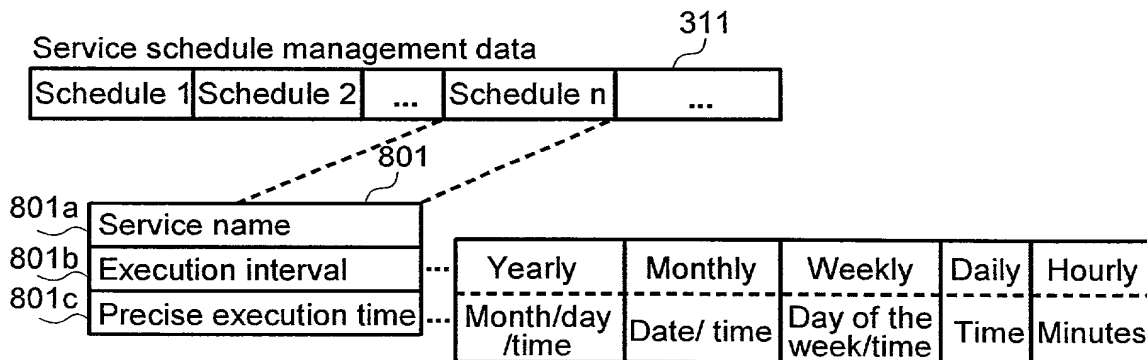
# FIG.6



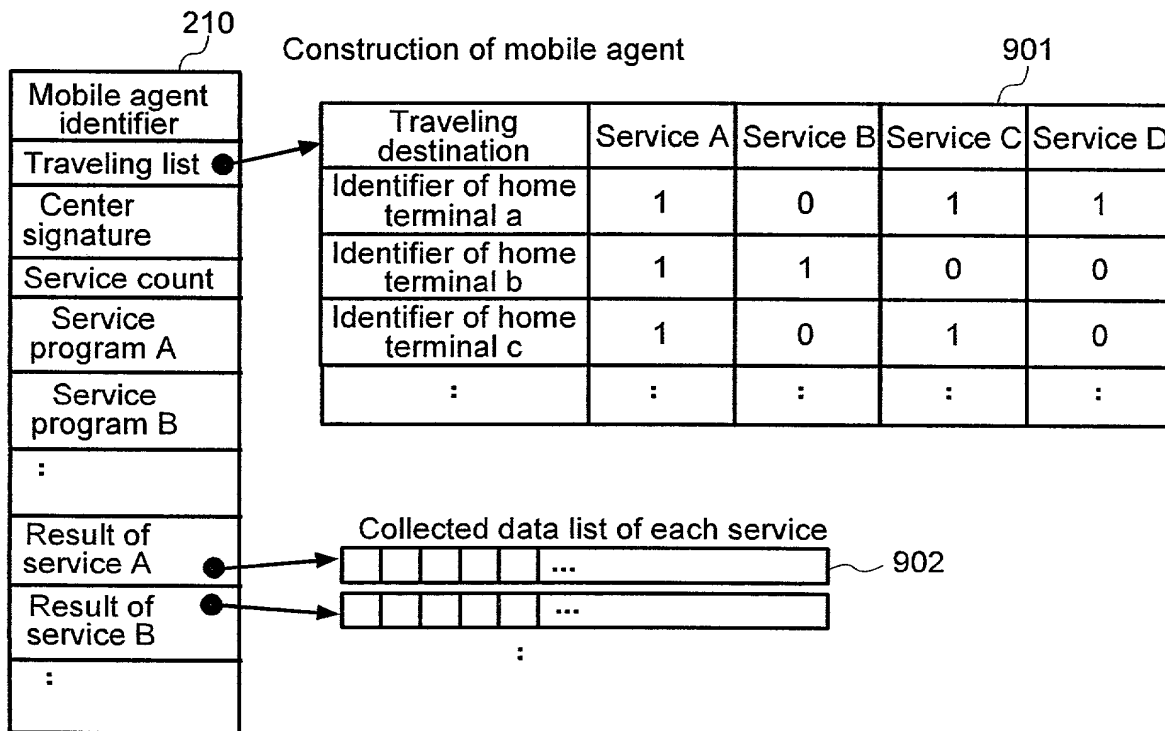
# FIG.7



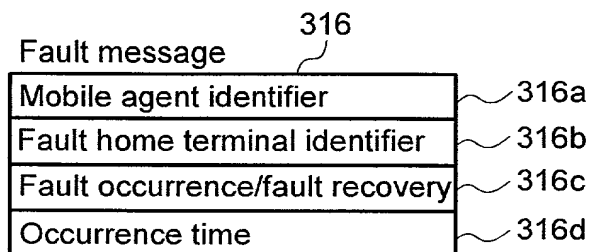
# FIG.8



# FIG.9

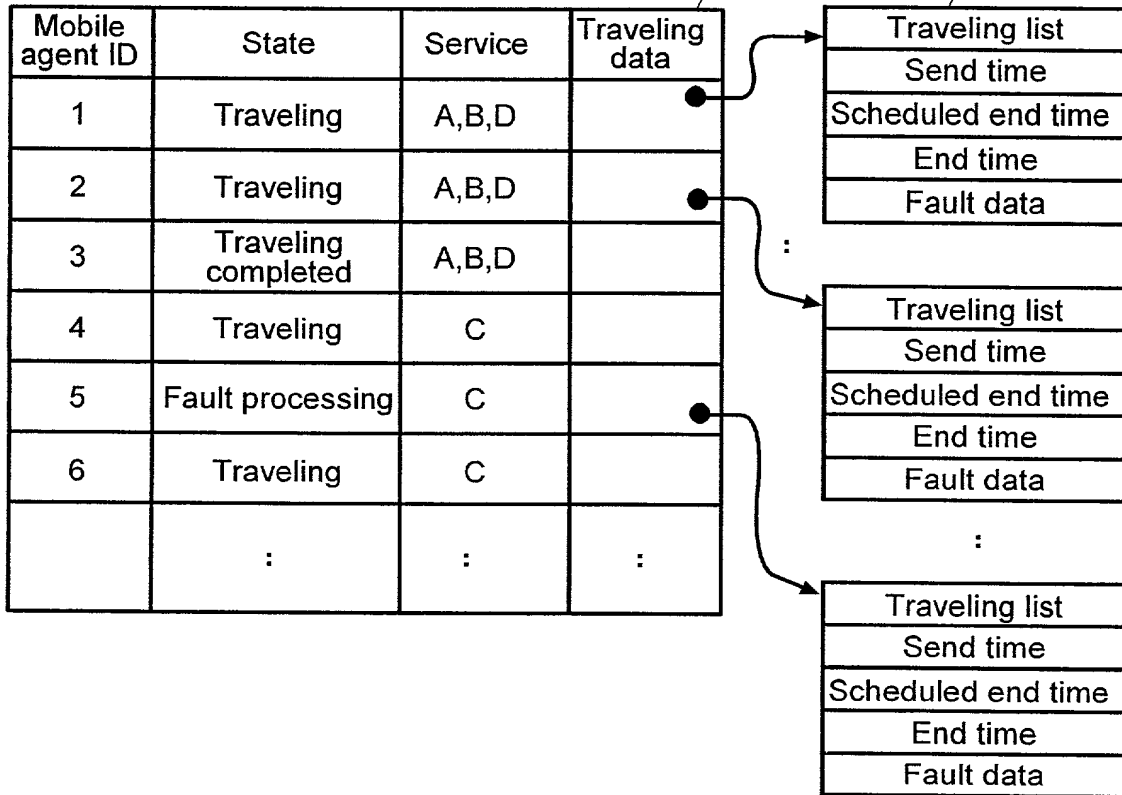


# FIG.10



# FIG.11

Mobile agent execution state management data 310



# FIG.12

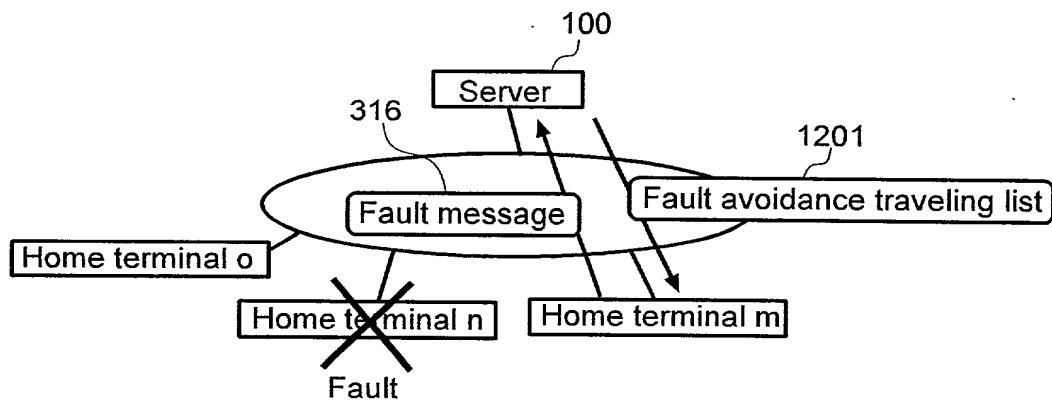
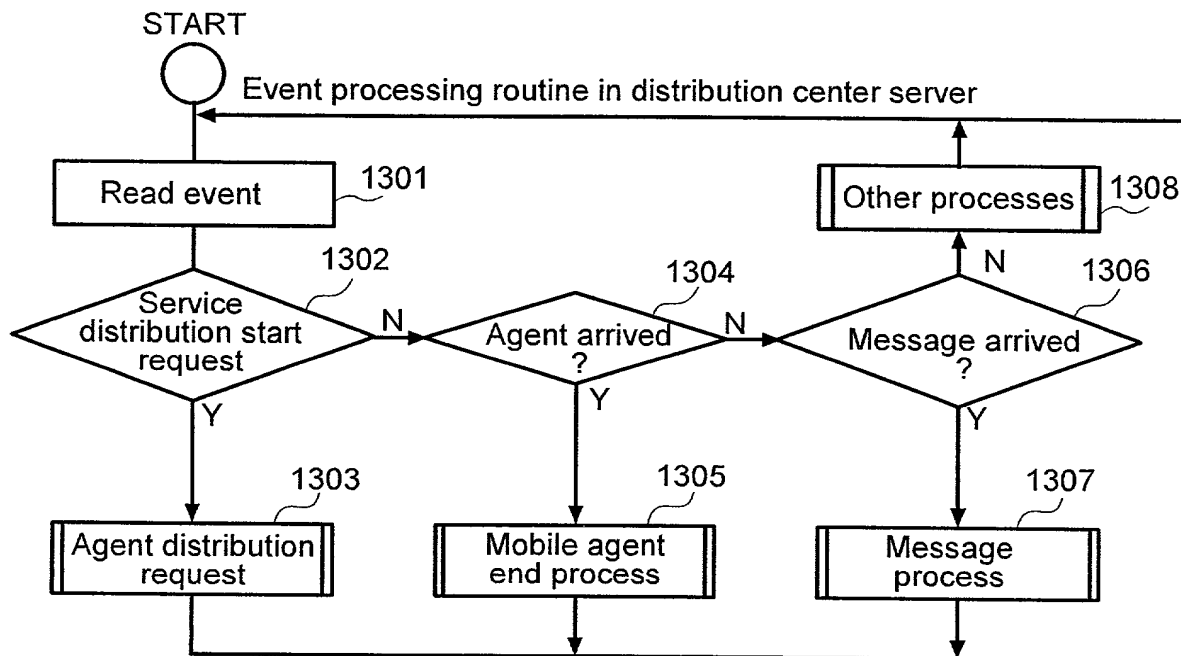
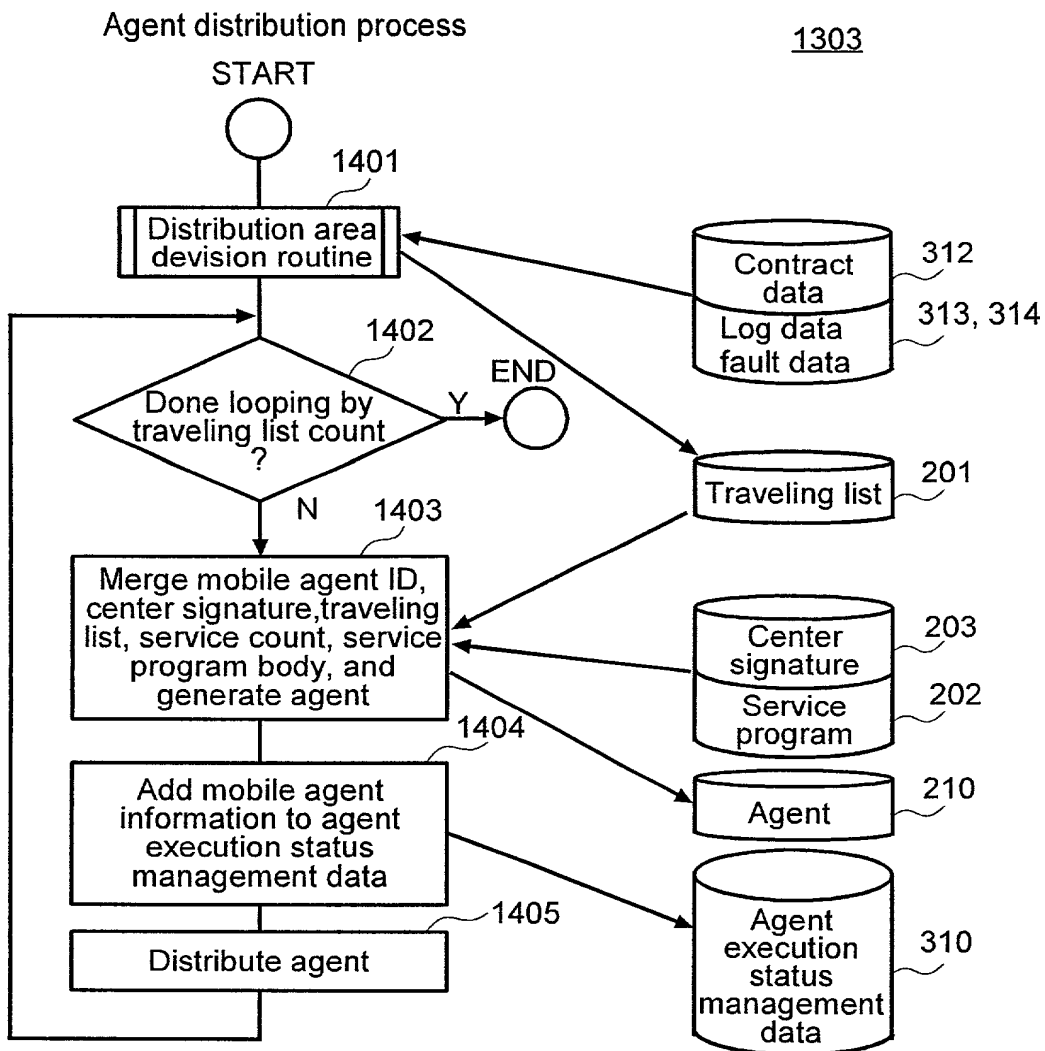


FIG.13





# FIG.14



# FIG.15

Distribution area deviation routine

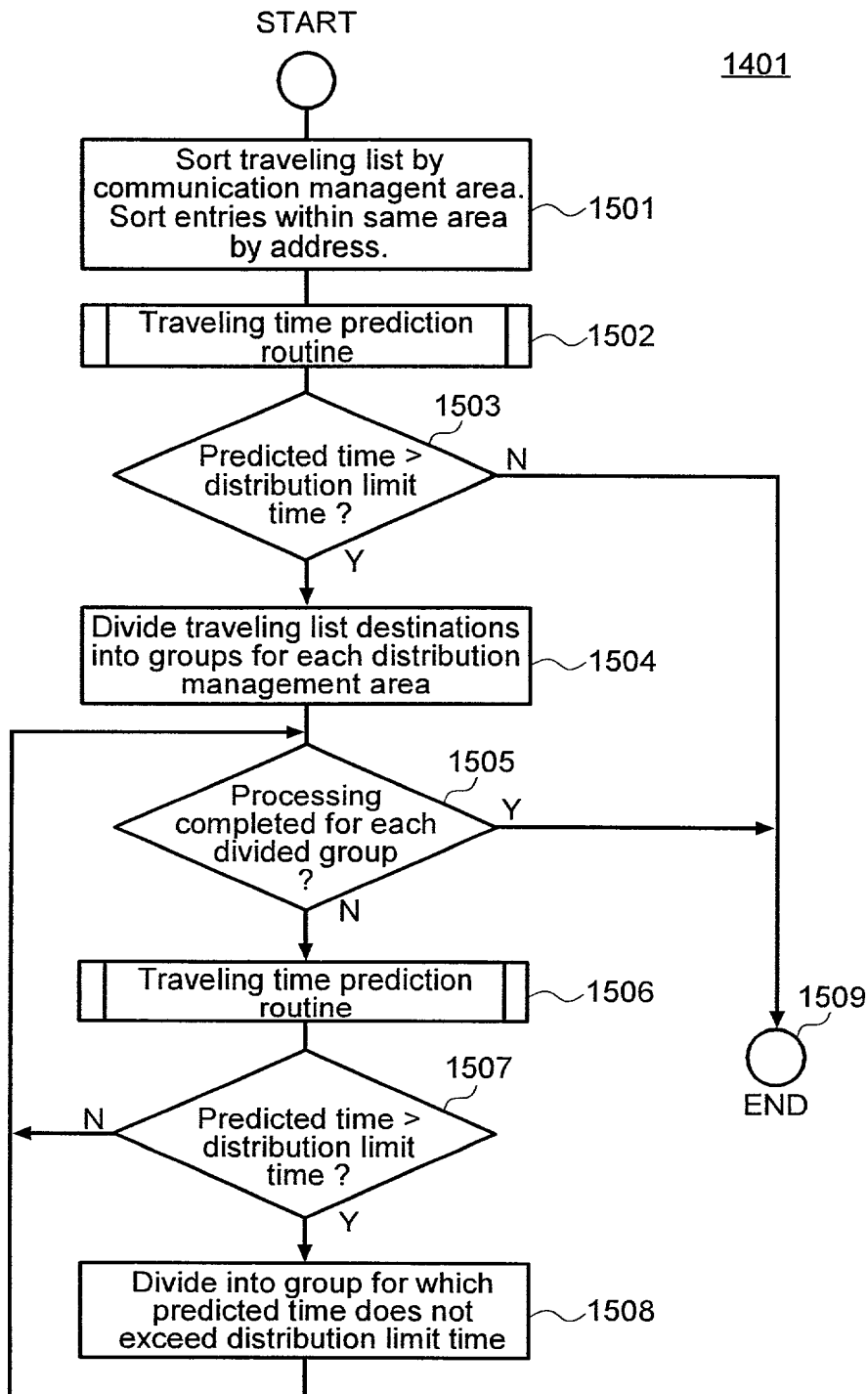


FIG.16

Traveling time prediction routine

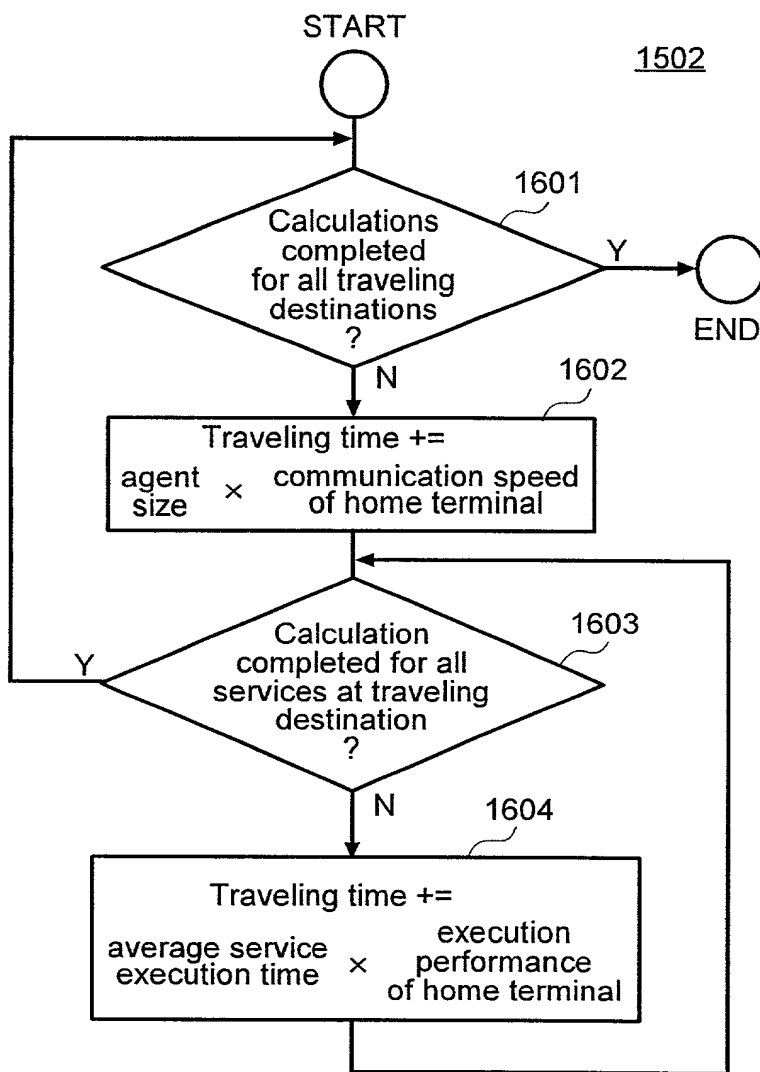
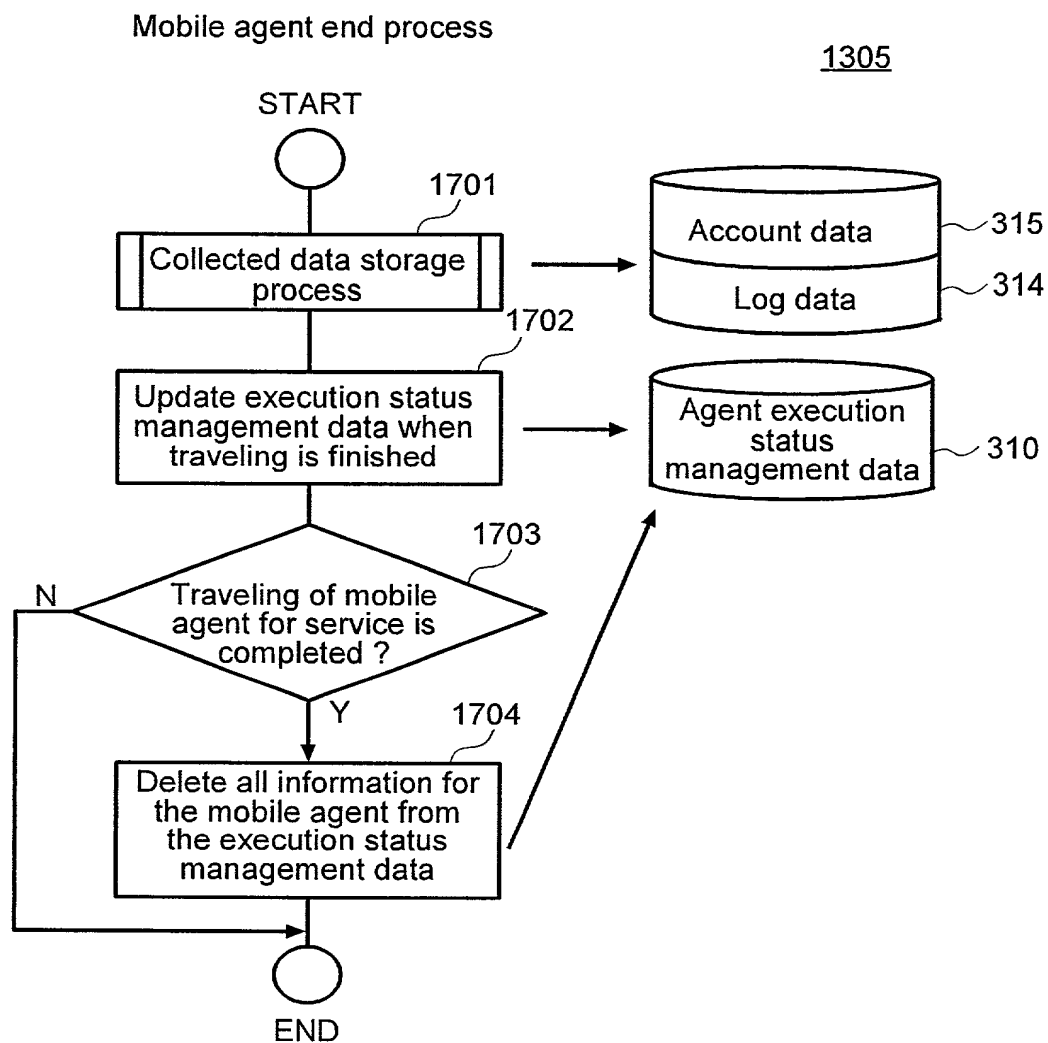
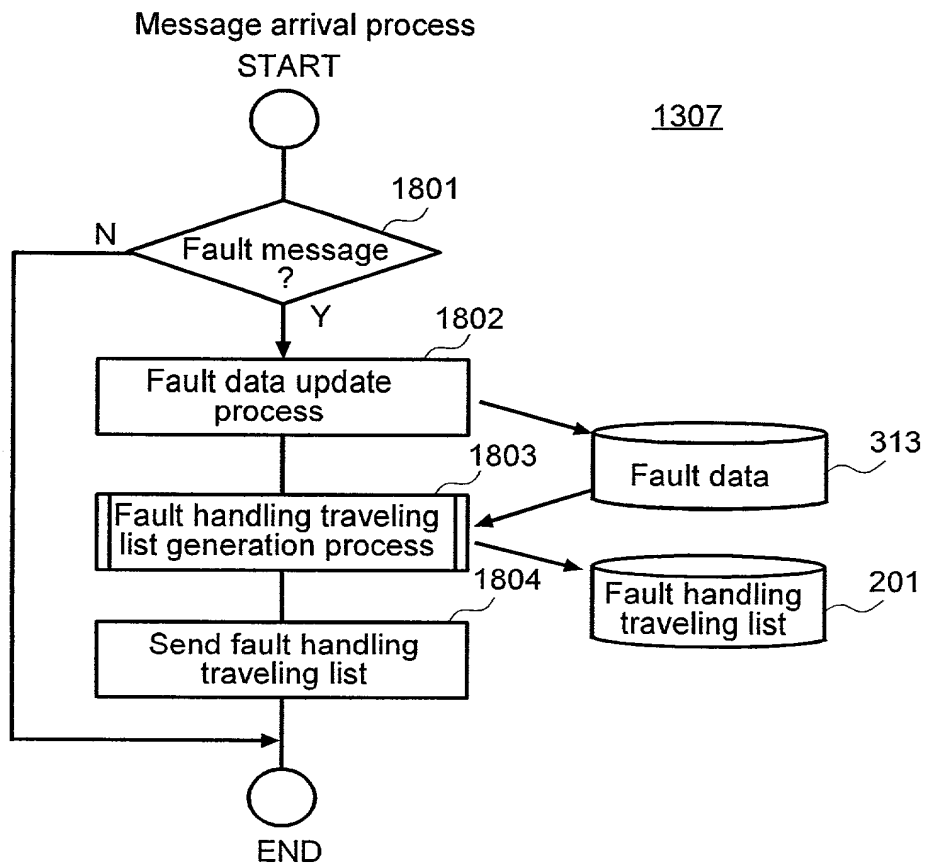


FIG.17

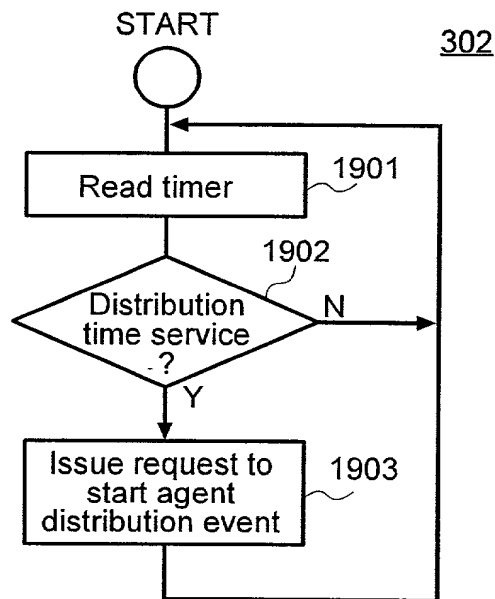


**FIG.18**



# FIG.19

Service schedule managemet routine in server



# FIG.20

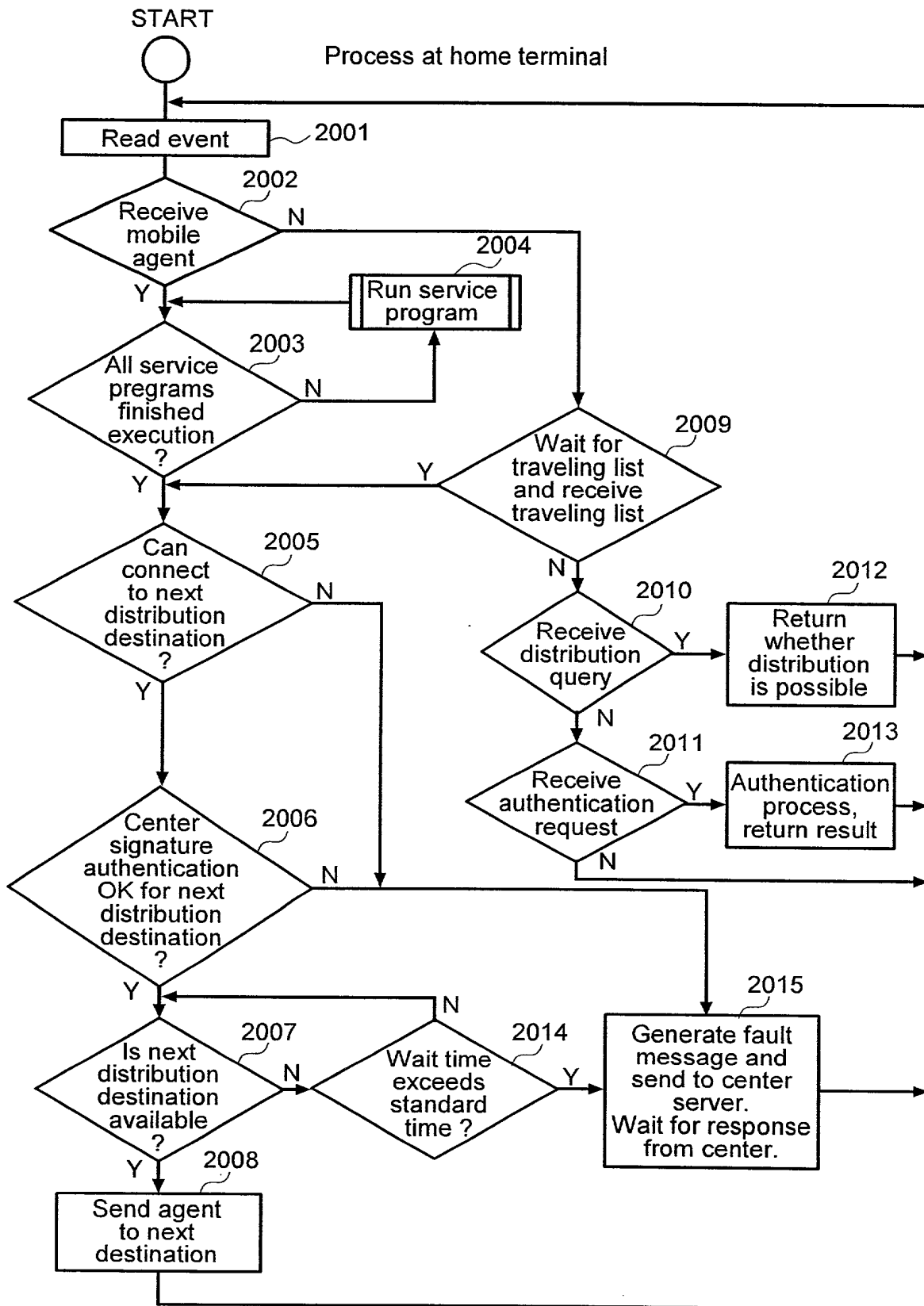


FIG.21

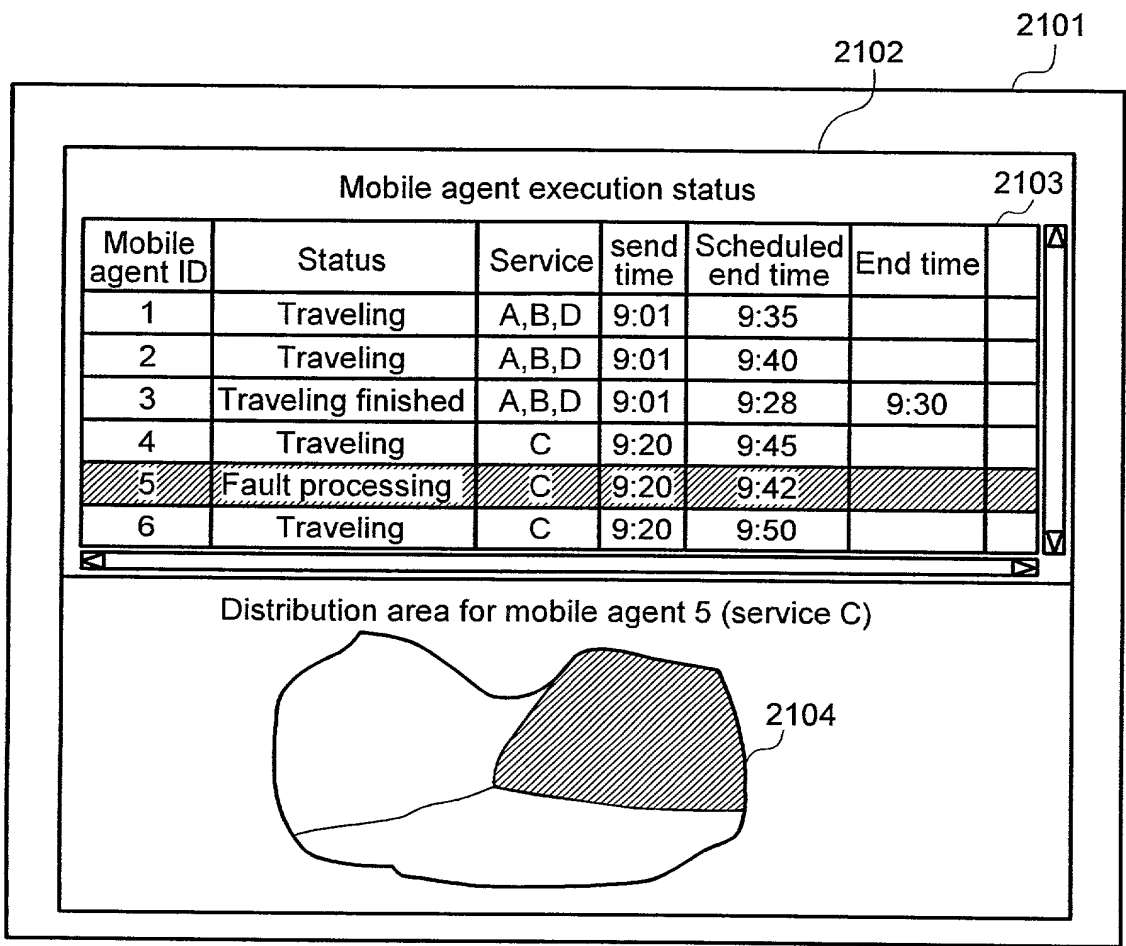
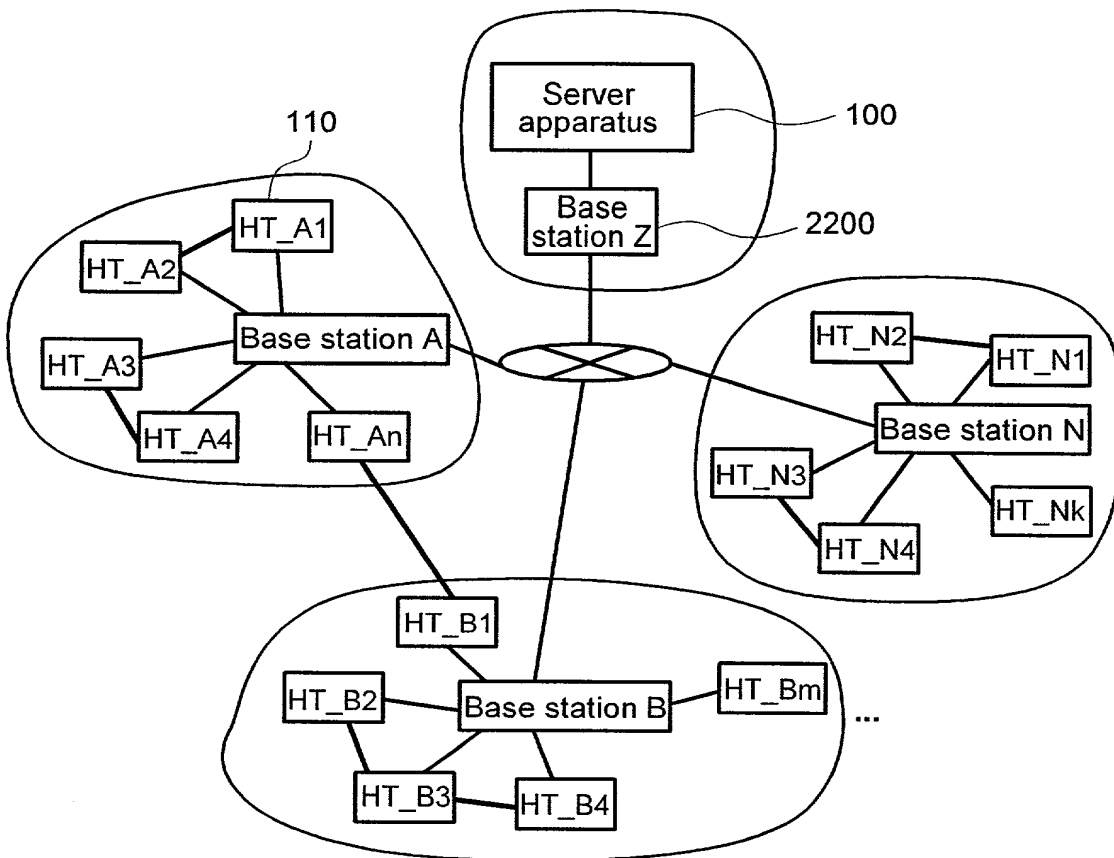


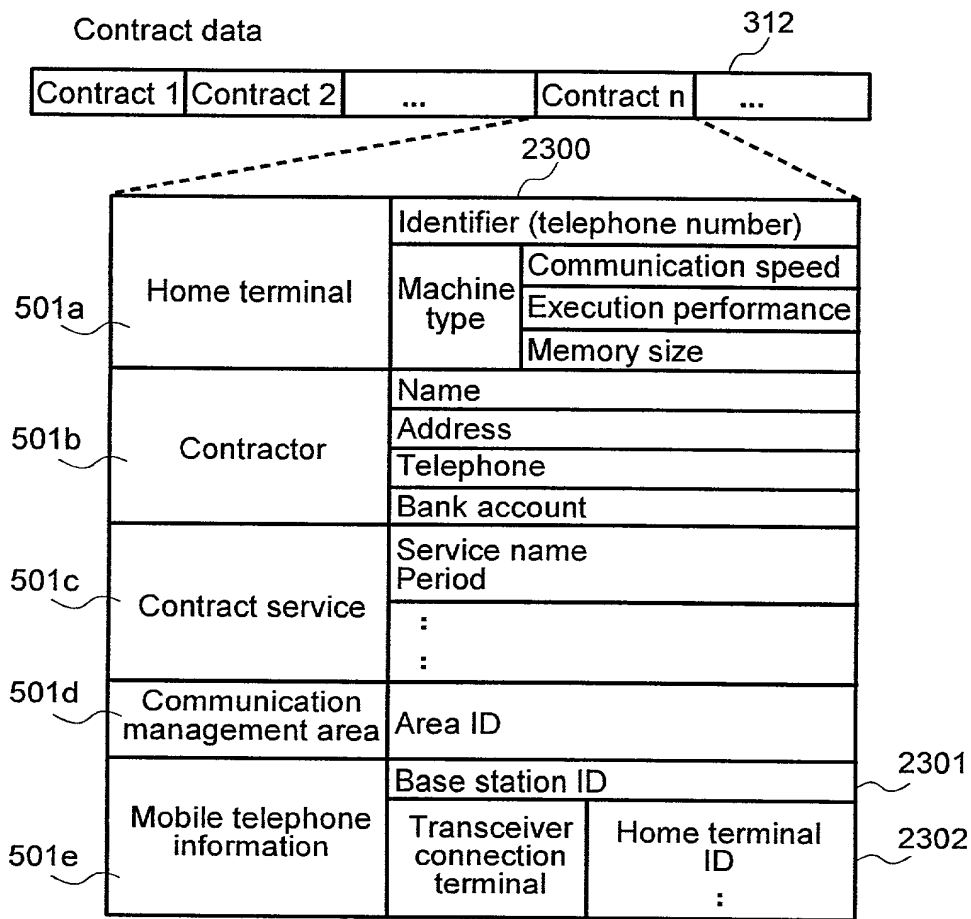


FIG.22



HT= home terminal

FIG.23



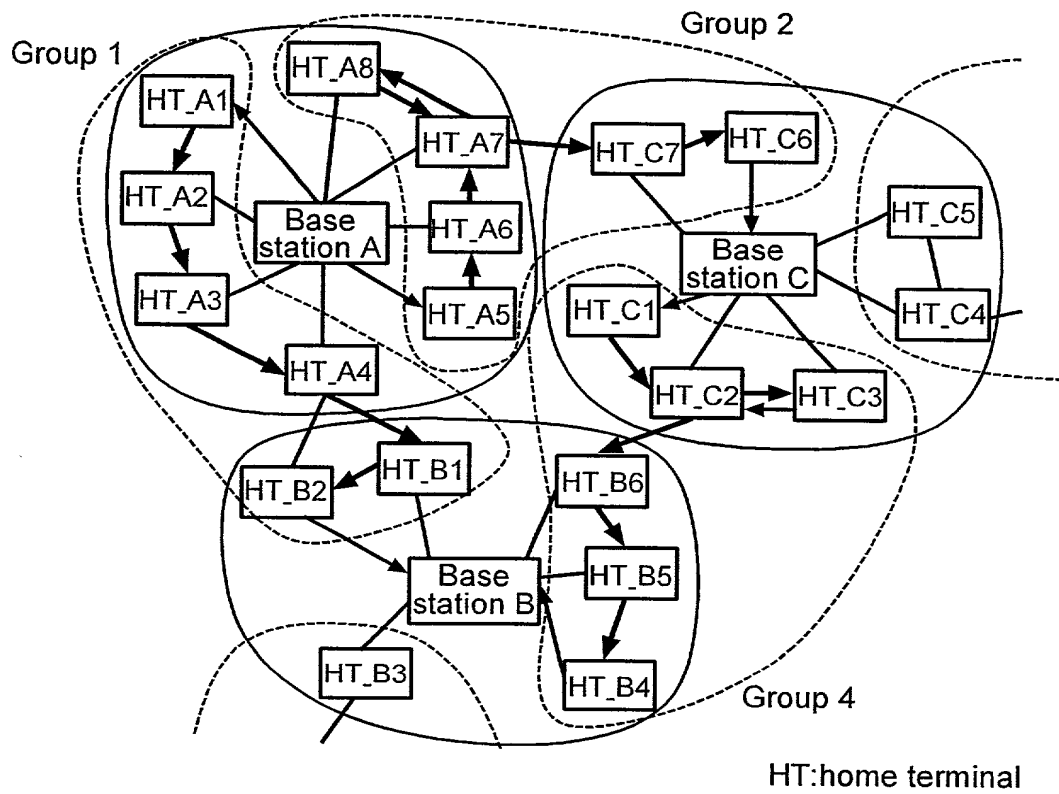
# FIG.24

Transceiver mode connection group table

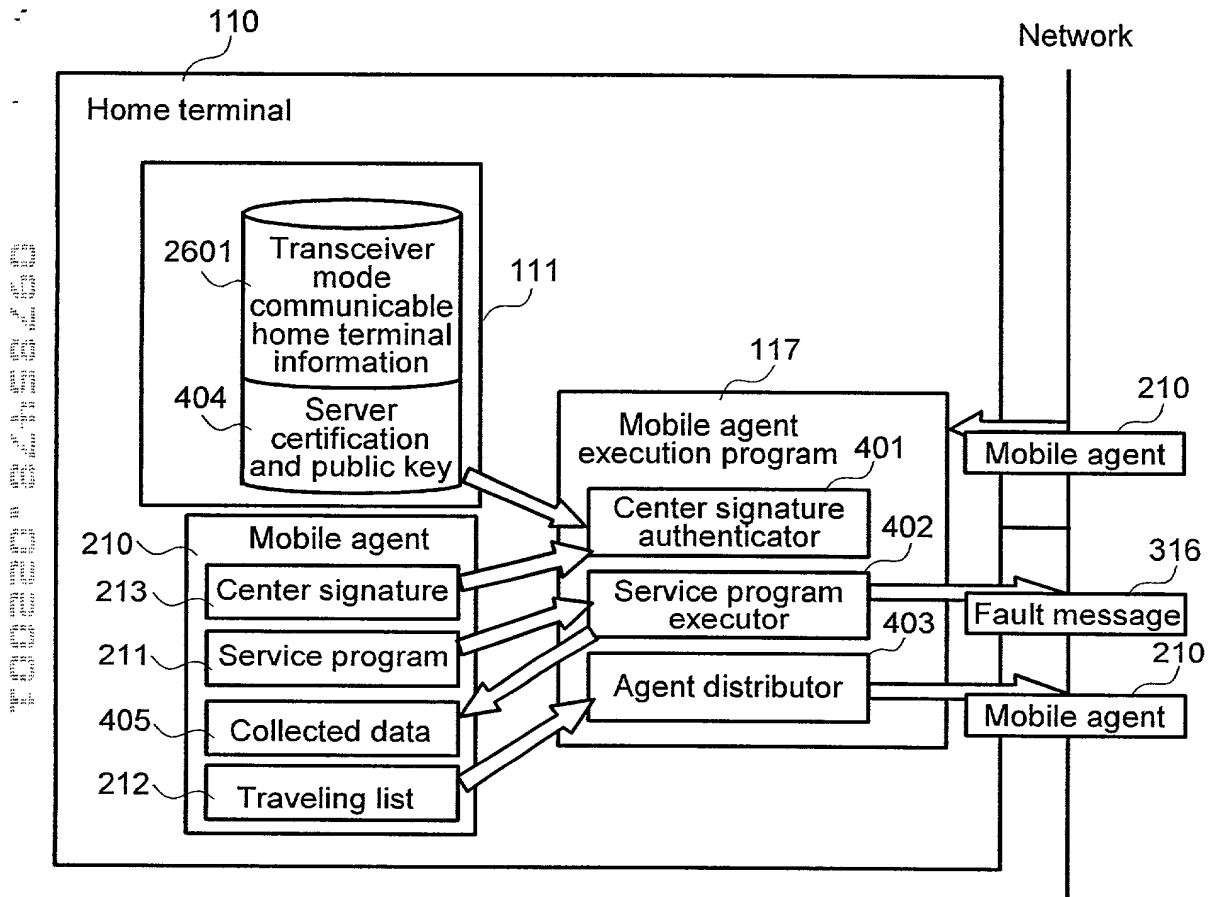
Group	home terminal list	Base station
1	HT_A1 HT_A2 HT_A3 HT_A4 HT_B1 HT_B2	A A A A B B
2	HT_A5 HT_A6 HT_A7 HT_A8 HT_C7 HT_C6	A A A A C C
3	HT_B3 :	B
4	HT_B4 HT_B5 HT_B6 HT_C2 HT_C1 HT_C3	B B B C C C
5	HT_C4 HT_C5 :	C C
:	:	:

HT= home terminal

**FIG.25**



# FIG.26



# FIG.27

Distribution area dividing process

START

304

2701

Divide traveling destinations into transceiver mode connection groups.  
Terminals not going in the groups are sorted by communication management area.  
Entries in the same area are sorted by area.

Overall traveling time prediction process

2702

Predicted time > distribution limit time?

2703

N

Y

Have all transceiver connection groups been processed?

2704

Y

Traveling time prediction process for all transceiver mode connection groups

2705

Overall predicted traveling time for terminals not in group > distribution limit time?

2707

N

Y

Join groups so that the total predicted time for groups does not exceed the distribution limit time

2706

Divide traveling destinations for all terminals not in group into groups by communication management areas

2708

Processing completed for all divided groups?

2709

Y

Traveling time prediction process

2710

Predicted time > distribution limit time?

2711

Divide entries into group of which predicted time does not exceed distribution limit time

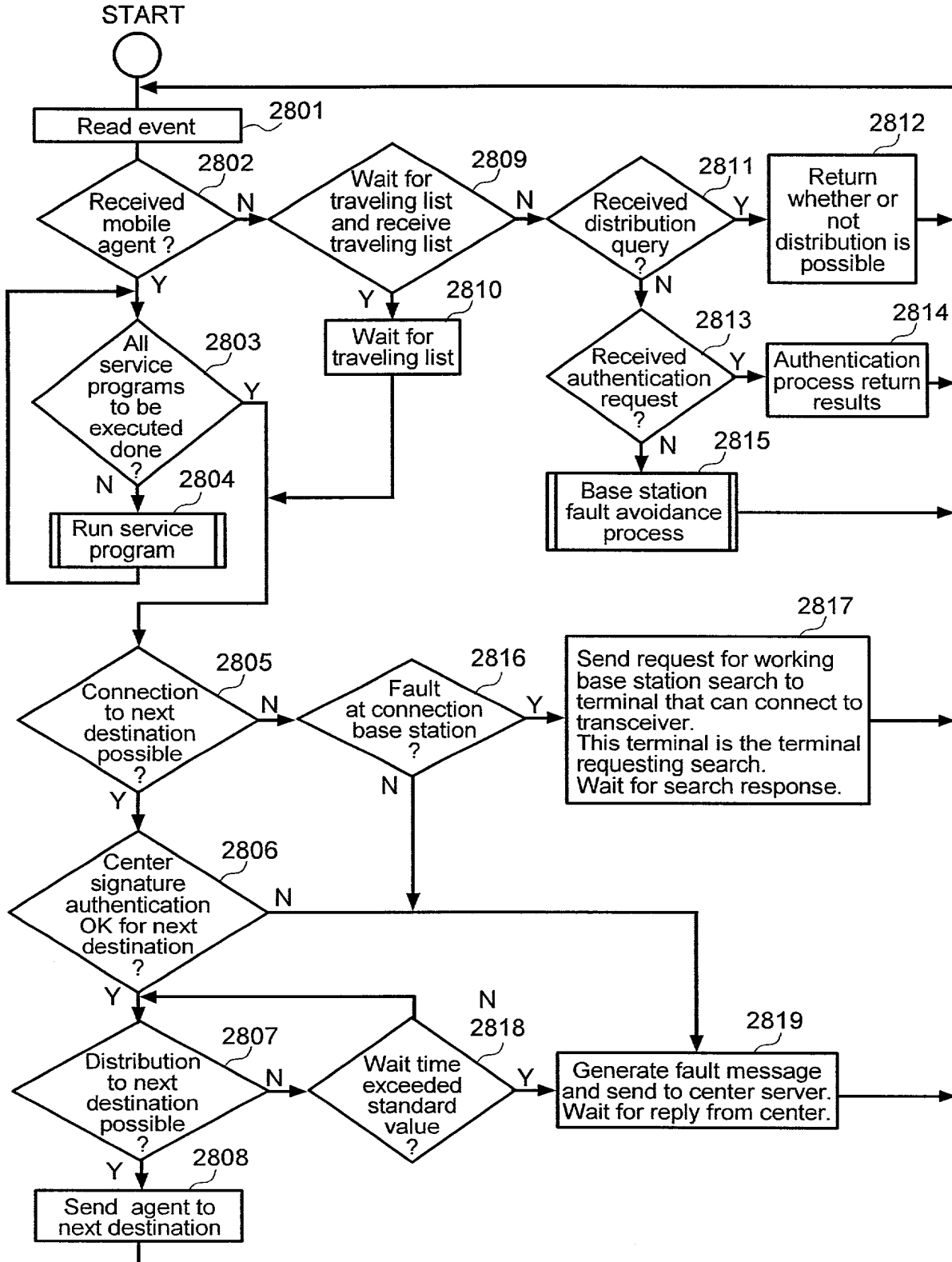
2712

END

FIG. 27 is a flowchart illustrating a distribution area dividing process. The process starts at a START terminal (2701) and proceeds to a process block (2702) for overall traveling time prediction. A decision diamond (2703) checks if the predicted time is greater than the distribution limit time. If 'N' (No), the process proceeds to the END terminal. If 'Y' (Yes), a decision diamond (2704) checks if all transceiver connection groups have been processed. If 'Y', the process proceeds to a decision diamond (2707) checking if the overall predicted traveling time for terminals not in the group is greater than the distribution limit time. If 'N', the process proceeds to the END terminal. If 'Y', a process block (2705) performs a traveling time prediction process for all transceiver mode connection groups, followed by a process block (2706) to join groups so that the total predicted time does not exceed the distribution limit time. The process then proceeds to a process block (2708) for dividing traveling destinations for all terminals not in the group into groups by communication management areas. A decision diamond (2709) checks if processing is completed for all divided groups. If 'Y', the process proceeds to the END terminal. If 'N', a process block (2710) performs a traveling time prediction process, followed by a decision diamond (2711) checking if the predicted time is greater than the distribution limit time. If 'N', the process proceeds to the END terminal. If 'Y', a process block (2712) divides entries into a group of which predicted time does not exceed the distribution limit time, and the process loops back to the decision diamond (2707).

# FIG.28

Process at home terminal



# FIG.29

## Base station fault avoidance process

2815

